



ROUX ASSOCIATES, INC.
Environmental Consulting
& Management

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DRAFT

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WELL CONSTRUCTION LOG

WELL NO. CFMW-016	LATITUDE Not Measured	LONGITUDE Not Measured
PROJECT NO./NAME 2476.0001Y / CFAC RI/FS Phase 1	LOCATION 2000 Aluminum Drive Columbia Falls, Montana	
APPROVED BY L. Jensen	LOGGED BY A. Hoffmann	GEOGRAPHIC AREA
DRILLING CONTRACTOR/DRILLER Cascade Drilling / Carlos Anguiano		
DRILL BIT DIAMETER/TYPE 6-in. / Sonic Bit	BOREHOLE DIAMETER 6-inches	DRILLING EQUIPMENT/METHOD Truck Mounted / Rotasonic
CASING MAT./DIA. SCH 40 PVC / 2-inch	SCREEN: TYPE Slotted	SAMPLING METHOD Continuous Core
		START-FINISH DATE 6/24/16-6/24/16
		MAT. SCH 40 PVC TOTAL LENGTH -10.0 DIA. 2-inch SLOT SIZE 20-Slot

Depth, feet	Stick Up	J-Plug	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
5	Cement	Concrete		Dark brown, fine to coarse SAND, some fine to medium Gravel, trace silt; moist Brown, fine to coarse SAND, some fine to coarse Gravel, trace silt; moist		0.0 0.6	6 ft recovery Sample CFMW-016a 0-0.5 collected Sample CFMW-016a 0.5-2 collected
10				Grey, fine to coarse SAND, some Silt, little fine to medium Gravel; wet, loose Tannish brown, coarse SAND, some fine to medium Gravel, little fine to medium Sand, trace silt; wet		0.8 0.1	8 ft recovery
15				Dark grey, fine to medium SAND, some Silt and fine to coarse Gravel, trace cobble; wet, loose		0.5	Sample CFMW-016a 10-12 collected
20				Light grey, fine to coarse SAND, some fine to coarse Gravel, little Cobble and Silt; wet		0.2	9 ft recovery
25				Light grey, fine to coarse SAND, some fine to coarse Gravel; wet		0.1	
30				Dark brown, PEAT with organic roots, some light grey fine Sand and Silt; moisture not noted Brown, fine to coarse SAND, some fine to coarse Gravel, trace silt; wet, loose Brown, fine SAND, little fine to medium Gravel; wet		0.0 0.0	9 ft recovery
35				Brown, fine to coarse SAND, little fine to medium Gravel; moist to dry		0.0	
40				Dark grey, fine to coarse SAND, little Silt and fine to medium Gravel; wet, loose		0.0	9 ft recovery
45				Brown, fine to coarse SAND, little fine to coarse Gravel, trace medium to coarse sand and silt; moist		0.0	
50				Brown, fine to coarse SAND, some fine to coarse Gravel; trace silt; moist to dry Brown to red, fine to coarse SAND, some fine to coarse Gravel and broken Boulder, trace silt; dry, dense		0.0 0.0	2 ft recovery; hard drilling 6 ft recovery; hard drilling

BORING/FEET CFAC BORING LOGS.GPJ ROUX.GDT 7/15/16

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CFMW-016	Not Measured	Not Measured
PROJECT NO./NAME	LOCATION	
2476.0001Y / CFAC RI/FS Phase 1	2000 Aluminum Drive	
APPROVED BY	LOGGED BY	
L. Jensen	A. Hoffmann	Columbia Falls, Montana

Depth, feet	Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS
55		Brown, fine to coarse SAND and fine to coarse Gravel, trace silt; dry, loose (continued) Brown, fine to coarse SAND and fine to coarse GRAVEL (pulverized), trace silt; dry, loose		0.0	10 ft recovery
60		Brown, fine to coarse SAND, some pulverized Boulder and Cobble, little fine to coarse Gravel; dry, loose		0.0	
65		Dark grey, fine to coarse SAND, some Cobble and fine to coarse Gravel, trace silt; wet, loose		0.0	10 ft recovery; hard drilling
70		Brown, fine to coarse SAND, some pulverized Boulder and Cobble; dry		0.0	
75		Brown, coarse SAND, some fine to coarse Gravel; trace cobble; moist Brown, fine to coarse SAND, some fine to coarse Gravel and Cobble (pulverized), little silt; dry, dense		0.0	8 ft recovery
80		Brown, coarse SAND, some fine to medium Gravel, trace fine to medium sand; wet, loose		0.0	
85		No Recovery; slough (graded coarse sand through coarse gravel)			No Recovery
90					
95					End of boring at 95 ft bls

85' of Schedule 40 PVC Riser

Bentonite Plug

#2 Sand
5' of 20-Slot
Schedule 40
PVC Screen

Well Plug

BORING/FEET CFAC BORING LOGS.GPJ ROUX.GDT 7/15/16

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